

MiniLift200

SystemRoMedic™

CE
User manual - English



REF
401100334



SWL: 200 kg/441 lbs

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MiniLift200

SystemRoMedic™



1. Lift arm
2. Hooks for lift vest/sling
3. Hand control
4. Leg support
5. Footplate
6. Rear castor wheels with brakes
7. Battery
8. Emergency stop
9. Adjustment of leg support
10. Manual emergency lowering
11. Front castor wheels
12. Locking mechanism for adjustment of lift arm

MiniLift200 is a mobile sit-to-stand lift which has been developed to, as gently as possible, assist the user when rising from a sitting to a standing position. When MiniLift200 is combined with the appropriate lifting accessories, the user gets support under the feet, for the front of the lower legs and behind the back, which provides for a safe and secure sit-to-stand procedure. The construction safely moves the user forwards and upwards in a natural movement pattern and, at the same time, the leg muscles and balance is exercised.



Functional inspection

Visual inspection

Inspect lift functions regularly. Check to ensure that material is free from damage.

Before use:

Ensure that the product is correctly assembled.

Check sling bar connection and safety latch function.

Check lift and base-width movement.

Check to ensure that the actuator is correctly installed.



Always read the user manual

Always read the user manuals for all assistive devices used during a transfer.

Keep the user manual where it is accessible to users of the product.

The lift may only be used by persons who have received instruction in the operation of the lift.

Assembly of MiniLift200

Check to ensure that all components are included:

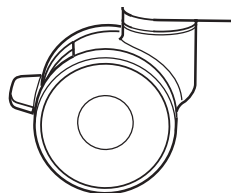
Lift unit, control box and battery pack, undercarriage and base-width adjustment motor, footplate, leg support, hand control and cord, manual and charger.



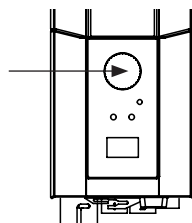
Connect cables: Hand control cord in HS, cable to lift unit on mast in outlet M1, and cable to base-width motor in outlet M2.

Final inspection

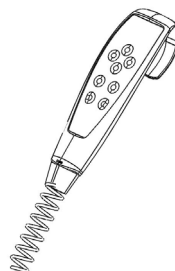
Check to ensure that no parts have been left in the packaging.
Inspect the lift for signs of wear and damage.
Check all four castor wheels and castor wheel locks.
Check all connections and fixtures including screws and bolts.



Check the emergency stop function by activating the emergency stop, and then pressing either the up or down button. If nothing happens when the up or down buttons are pressed, the emergency stop is functioning properly.



Grasp the hand control, press the up button and run the lift arm all the way up. Then, press the down button and run the lift arm all the way down.
Test base-width adjustment function. Press the button for base-width adjustment to widen the base fully, and then press the other button to narrow the base again.



Test lift function by lifting a person (not a user) using an approved sling. At the same time, check the emergency lowering function with someone on the lift. See section on Emergency lowering.

If the lift is functioning correctly, connect the charger and check to ensure that the charging lamp on the control box lights up.

NOTE!


Before the lift is used for the first time, it must be charged for at least 4 hours. See section on charging batteries.

Keep the manual where it is accessible to users of the product.

Using the product



Important Information

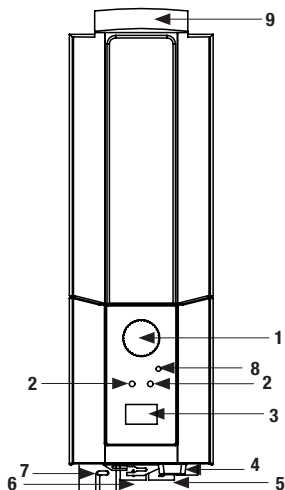
- The lift must be assembled according to the instructions provided by Handicare.
- The lift may only be used indoors on a level floor.
- Lifting accessories must be properly fitted and tested in relation to the user's needs and functional ability.
- Under no circumstances may the safe working load be exceeded. See section on Technical information and the product label on the lift.
- Never move the lift by pulling on the actuator! 
- The lift must not be used or immersed in or under water including showering.
- The lift should not be left / stored in a high humidity environment.
- The lift must not be charged in a wet room.
- To ensure optimal function, the lift must be inspected regularly. See section on other maintenance details.
- Warranty applies only if repairs or alterations are made to the product by personnel who are authorized by Handicare.
- Using lifting accessories other than those approved can entail a risk.

Safe working load

Different products on the same lift system (lift unit, lifting sling, and other lifting accessories) may have different allowable safe working loads. The lowest allowable safe working load always determines the safe working load of the assembled system. Always check the safe working loads for the lift and accessories before use. Contact your dealer if you have any questions.

The control box and battery have the following features

1. Emergency stop
2. Charging lamps
3. Display showing battery charge level
4. Charger cable
5. Connection for base-width adjustment motor
6. Connection for lift arm actuator
7. Connection for hand control
8. Electrical emergency lowering
9. Handle for lifting battery



Charging batteries

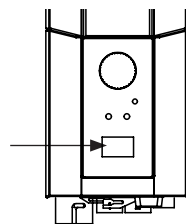
A tone when using the lift indicating that the batteries need recharging.
Charge the lift after use to ensure that the battery is always fully charged.
Lock the castor wheels when charging the battery.

1. Connect the charging cable to a power outlet.
2. Check to ensure that the lamps on the control box light up. The green LED lamp indicates that the charger is receiving power and the yellow LED lamp indicates that the battery is charging.
3. Charging stops automatically when the battery is fully charged.



Wall-mounted charger.

1. Remove the battery pack from the lift and place it in the wall-mounted charger.
2. Check to ensure that the LED lamp on the front of the charger lights up.



NOTE!

Before the lift is used for the first time, it must be charged for at least 4 hours.
For maximum battery life, charge batteries regularly. We recommend daily charging when the lift is used daily.
If the emergency stop is active then the lift can not be charged.

Hand control

Raising/lowering the lift arm

Symbol indicate direction of travel.
Motion stops as soon as the button is released.



Widening/narrowing the base

Markings on the buttons indicate function.
Motion stops as soon as the buttons are released.



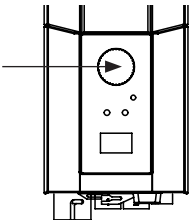
Emergency stop

To activate the emergency stop

Press the red emergency stop button on the control box.

Resetting

Turn the button in the direction of the arrows until the button pops out.



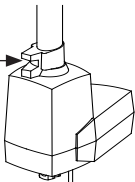
To prevent battery discharge, we recommend that the emergency-stop button is pressed in when the lift is not in use.

Emergency lowering

Manual emergency lowering

For manual emergency lowering, turn the round plastic knob on the actuator clockwise.

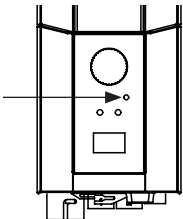
Manual emergency lowering



Electrical emergency lowering

For electrical emergency lowering, use the down button on the control box. Use a narrow object such as a pen.

Electrical emergency lowering



Instructions for use

These instructions must be followed for correct use of MiniLift200.

Caution:

The actuator does not lower the lift arm when the lift is being lowered. This reduces the risk of the user being pinched by the lift arm, but as a result, the lift arm may at first catch, and then suddenly fall. To prevent this, the lift arm must be loaded throughout the entire lowering procedure, so that it is always supported by the actuator.

Hand control functions:

The hand control has four functions: up and down (lift arm), out and in (base width).

Two functions cannot be used at the same time.

NOTE: The hand control functions do not operate if the emergency stop button is activated

Transferring and lifting the user:

The width of the base must be correctly adjusted to ensure optimal safety.

NOTE: MiniLift200 is not intended for transporting users. It may only be used for short transfers.

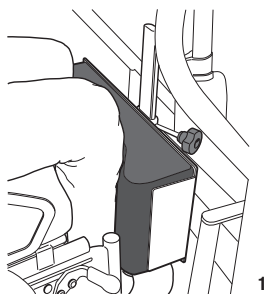
Caution: Never move the lift by pulling on the actuator.

Caution: Ensure that the user's feet do not get caught between the footplate and the floor. Ensure that the user's feet do not get caught between the footplate and the base when adjusting the base width.

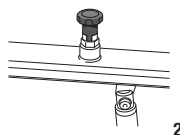
Using MiniLift200

Place an appropriately sized ThoraxSling behind and below the user's hips, (see manual for ThoraxSling).

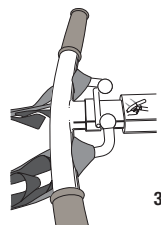
When the user has placed /his/her feet on the footplate, move the lift forward towards the user. Place the lift as close as possible to the user. Take care to ensure that the user's shins are resting securely against the leg support, and then adjust the leg support so that it does not press against the user's kneecaps (about 2 cm lower), see picture 1.



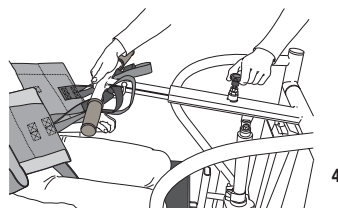
Raise the locking handle on the lift arm (2) and pull the lift arm out as far as possible towards the user.



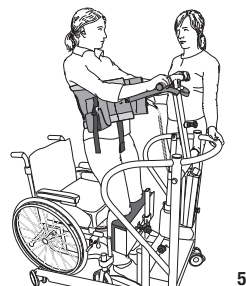
Select the sling loop that reaches the hook on the lift arm (shortest loop alternative). Hook the lift loops to the underside of the sling bar (3).



Raise the locking handle and draw the lift arm back, so that the lift straps on the sling are stretched, and then lower the locking handle back into position (4).



Instruct the user to allow himself/herself to be supported behind the back during raising (5). Raise the lift to the desired height and ensure that the user is standing with both feet on the footplate and is grasping the sling bar handles with both hands to avoid being pinched between the sling bar and lift loops.



Helpful hint:

Use a longer loop alternative for short users and for users that cannot be fully raised.

Use a longer loop alternative for taller users, and pull the lift arm out to allow the user to rise to a standing position.

Trouble-shooting

If the lift or base-width adjustment cannot be activated, check the following:

- That the emergency stop button is activated.
- That all cables are properly and securely connected. Pull out the contact and plug it in again firmly.
- That battery charging is not in progress.
- That the battery is charged.

If the lift is not working properly, contact your dealer.

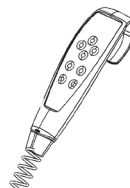
If the lift makes unusual noises:

- Try to determine the source of the sound. Take the lift out of operation and contact your dealer.

Accessories

Hand control

Hand control HB33, article no.: 70200089



Lifting sling

ThoraxSling, XS-XXL



ThoraxSling, with seat support S-XL



ThoraxSling, wipeable, S-XXL



ThoraxSling, with seat support, disposable, S-XL



CalfStrap



SlingBarWrap MiniLift



Maintenance

The lift must undergo thorough inspection at least once per year. Inspection must be performed by authorized personnel and in accordance with Handicare's service manual.

Repairs and maintenance may only be done by authorized personnel using original spare parts.



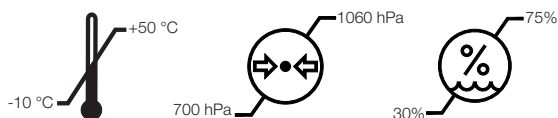
Spent batteries are to be left at the nearest recycling station. Spent batteries can also be returned to Handicare or a Handicare dealer for recycling.

Cleaning/disinfection

Clean the lift with warm water or rubbing alcohol and ensure that the castor wheels are free of dirt and hair. Do not use cleaning agents containing phenol or chlorine, as this may damage the material.

Storage and transportation









If the lift is not to be used for some time or e.g., during transport, we recommend that the emergency stop button be pressed in. The lift should be transported and stored in -10°C to $+50^{\circ}\text{C}$ and in normal humidity, 30% -75 %. The air pressure should be between 700 and 1060 hPa. Let the lift reach room temperature before the batteries are charged or the lift is used.



Service agreements

Handicare offers the possibility of service agreements for maintenance and regular testing of your mobile lift. Contact your local Handicare representative.

Symbols

	Read user manual
	May not be discarded in domestic waste
	The product complies with the requirements of the Medical Devices Directive 93/42/EEC.
	Type B, according to the degree of protection against electric shock.
	The device is intended for indoor use.
	Class II equipment
	This product is tested and approved in regards to safety in the workplace according to the requirements of the US Occupational Safety & Health Administration. "US" stands for compliance with the requirements of US authorities, "C" for compliance with Canadian requirements.
	Always Read The User Manual

EMC

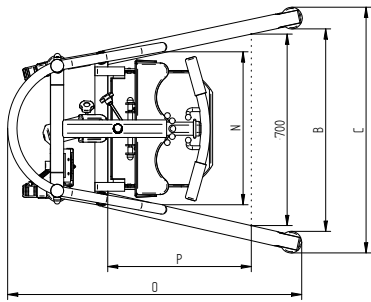
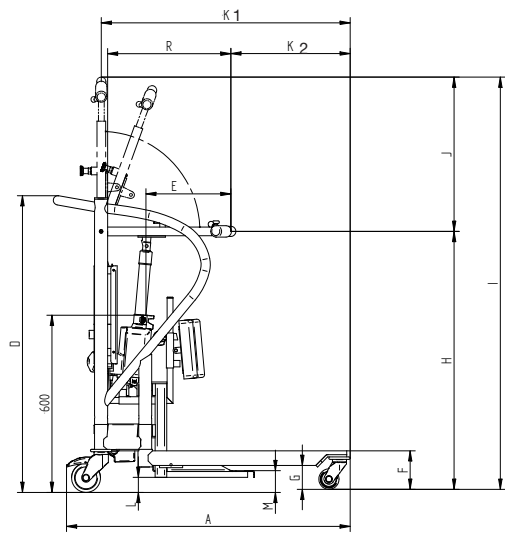
This equipment/system is intended for use by healthcare professionals only. This equipment/system may cause radio interference or may disrupt the operation of nearby equipment. It may be necessary to take mitigation measures, such as reorienting or relocating the equipment/system or shielding the location.

Technical Information

Lifting speed:	35 mm/s without load.
Batteries:	Two 12V, 2.9 Ah valve-regulated, sealed, lead accumulator (gel-type batteries)
Charger:	Max. 400mA
Motor (mast):	DC 24 V, 10.5 Ah. Operating time: 10% maximum continuous operation for 2 minutes Push: 7500N.
Motor (base):	DC 24 V, 12.3 Ah. Operating time: 10% maximum continuous operation for 2 minutes Push: 2000N.
Sound level:	55.8 dB(A)
Material	Steel
Emergency lowering:	Manual and electrical
Castors:	Front 3.9", 100 mm, back 3.9", 100 mm
Weight:	49 kg/108 lbs
IP class:	IP X4
Expected lifetime:	10 years
Operating forces buttons on hand control:	4 N
Max. load:	200 kg/ 441 lbs

Medical Device Class I. The product complies with the requirements of the Medical Devices Directive 93/42/EEC.

Dimensions



Measurement

		Tolerance +/- 5mm 0.2"	
A	Length	960 mm	37.7"
B	Width inside min. legspread	450 mm	17.7"
	Width inside max. legspread	875 mm	34.4"
C	Width outside min. legspread	590 mm	23.2"
	Width outside max. legspread	1030 mm	40.5"
D	Height	1000 mm	39.3"
E	Maximum reach at 600 mm (reference height)	295 mm	11.6"
	Max height from the base	1375 mm	54.1"
F	Height at base, front	132 mm	5.2"
G	Clearance at base	90 mm	3.5"
H	Lifting height min.	880 mm	34.6"
I	Lifting height max.	1500 mm	39"
J	Lifting range	620 mm	24.4"
K1	Min. distance from wall to CSP at max. Height (legs spread)	860 mm	33.8"
	Minimum distance from wall to CSP at max. reach (legs spread)	410 mm	16.1"
K2	Min. distance from wall to CSP at min. height (legs spread)	410 mm	16.1"
L	Footplate, clearance	50 mm	1.9"
M	Footplate, height	50 mm	1.9"
N	Inside space between bars	525 mm	20.6"
O	Overall length	980 mm	38.5"
P	Reach from base with legs spread to 700 mm	570 mm	22.4"
R	Max. reach from base	425 mm	16.7"
	Max. load	200 kg	440.9 lbs
	Total weight	49 kg	108 lbs
	Weight loose parts (footplate)	5 kg	11 lbs
	Number of lifts per charge	20-25	
	Footplate, dimensions (W x D)	390 x 345 mm	15.3 x 13.5"
	Materiale frame	Steel	
	Wheels	Ø100mm	3.9"
	Turning radius	525 mm	20.6"
	Lifting speed unloaded	35 mm/sec	1.3"/sec

Simple solutions for great results

SystemRoMedic™ is the name of Handicare's unique easy transfer concept, the market's widest and most comprehensive range of clever, easy-to-use and safe transfer and lifting aids designed to make life easier, both for the user and for the caregiver. SystemRoMedic™ is a complete solution that provides for the majority of patient transfer or manual handling requirements. From the simplest to the most complex scenarios, from the lightest to the heaviest. The concept encompasses assistive devices for four different categories of transfers:

- Transfer, assistive devices for manual transfers of users between two locations.
- Positioning, assistive devices for manual repositioning of users within the same location.
- Support, assistive devices for mobility support e.g., during sit-to-stand or gait training.
- Lifting, assistive devices for manual and mechanical lifting of users.

Improved work environment, improved quality of care and cost savings

The philosophy behind SystemRoMedic™ is focused on the prevention and reduction of occupational injuries while allowing users to experience a greater sense of independence and dignity. Through a unique combination of training and a complete range of efficient transfer aids, SystemRoMedic™ offers improvement of both work environment and quality of care and, at the same time, achieves significant cost savings.

Always make sure that you have the correct version of the manual

The most recent version of all manuals are available for downloading at/from our website; www.handicare.com.

For questions about the product and its use

Please contact your local Handicare and SystemRoMedic™ representative. A complete list of all our partners with their contact details can be found on our website; www.handicare.com.

Handicare offers solutions and support to increase the independence of disabled or elderly people as well as to improve the convenience of those who are caring for them.

The Handicare Group is one of the leading healthcare companies in Europe with its own manufacturing organizations and sales companies in Norway, Sweden, Denmark, Germany, the Netherlands, Great Britain, France, China, Canada and the USA. Handicare's products are also distributed by partners in more than 40 countries worldwide. Our wide range of high-quality products includes various manual and power wheelchairs, seating systems, scooters, a complete easy transfer system and other patient handling aids, stairlifts, car adaptations, rise and recline chairs, and bathing and toileting products.



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